

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Vassilev, et al. )  
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APPLICATION NO.: Not yet assigned )  
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FILED: Herewith )  
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FOR: REFRIGERATOR AND )  
SYSTEM OF REFRIGERATORS )  
)  
EXAMINER: Not yet assigned )  
)  
ART UNIT: Not yet assigned )  
)

**PRELIMINARY AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**Amendments to the Specification** begin on page 2 of this Preliminary Amendment.

**Amendments to the Claims** are reflected in the Listing of Claims which begins on page 3 of this Preliminary Amendment.

The **Remarks** section begins on page 7 of this Preliminary Amendment.

**Amendments to the Specification**

On page 1, please add a new paragraph and subject headings as follows:

**REFERENCE TO RELATED APPLICATIONS**

This application is the United States National Phase, under 35 U.S.C. § 371, of International Patent Application No. PCT/BG03/00028, having an international filing date of June 18, 2003.

**BACKGROUND**

The following Listing of Claims replaces all prior listings, and versions, of claims in the subject patent application.

**Listing of Claims:**

1 (currently amended): A refrigerator R characterized in that it comprises comprising a ~~conventional~~ microprocessor system 1 with a power supply 2 and by means of a conventional complex two-directional bus 3, which contains conventional data sub-buses, controlling and addressing sub-buses, the microprocessor system 1 is connected to: a module for measuring the temperature 4, whose data inputs are connected respectively to a temperature sensor 5 arranged in the operating space of the refrigerator for measuring the temperature therein, and to a temperature sensor 6 arranged adjacent to one of a ~~the~~ compressor or a ~~the~~ heater of an evaporator of the refrigerator evaporator in order to monitor ~~the~~ a normal refrigerator cooling mode; a module 7 for power supply control of the lamp in an operating space of the refrigerator ~~operating space~~; a module 8 for power supply control of at least one of the compressor or heater of the evaporator of the refrigerator; a module 9 with an electronic switch for detecting ~~the~~ an “open - closed” position of the refrigerator door; a socket 10 for identification of at least one of a plurality of the coded cards or refrigerator access chips of ~~the~~ an authorized user ~~or staff~~; a sound indicator 11; a controllable refrigerator door lock 12; a plurality of light indicators 13; a multi-linear display 14; a keyboard 15; a multi-channel transceiver module 16; a module 17 for refrigerator power supply monitoring and control, and a module 18 for controlling a refrigerator door closure mechanism 19 in cases of failures, and the microprocessor system 1 is connected, by means of a buffer 20, to sensors arranged within the refrigerator operation space and intended for detection of a ~~the~~ position 21 and a ~~the~~ kind, price and expiry date 22 of ~~the contained~~ products contained in the refrigerator; whereupon ~~the microprocessor module 1, the power supply 2, the temperature measuring module 4, the module 7 for the power supply control of the refrigerator lamp, the module 8~~

~~for the power supply control of the compressor or heater, the sound indicator 11, the multi-channel transceiver module 16, the module 17 for monitoring and control of the power supply 2, the module 18 and the buffer 20 are arranged in a closed outer unit on the back wall of the refrigerator, and the light indicators 13, the multi-linear display 14 and the keyboard 15 are positioned at a suitable and accessible place within the refrigerator so that they are easily visible upon opening the refrigerator door, whereupon transponders 23, recognizable by the sensors 22, are positioned onto the products which are supplied to the refrigerator at locations where the sensors 23 are arranged.~~

2. (currently amended): The refrigerator R according to claim 1 ~~characterized in that~~ wherein the light indicators 13, the multi-linear display 14 and the keyboard 15 are positioned at a suitable and accessible place on the frame of the refrigerator door which is easily visible when the refrigerator door is closed.

3. (currently amended): The refrigerator R according to claim 1 ~~characterized in that~~ wherein the sensors for the product position 21 and the sensors for the product kind, price and expiry date 22 form a unified microwave transceiver arranged outside the refrigerator operating space and the transponders 23 are passive transceivers.

4. (currently amended): A system S1 of refrigerators according to claim 1 ~~characterized in that it comprises~~ further comprising N refrigerators R connected to each other by means of N multi-channel communication lines and to a hotel coordination center 24 consisting of a multi-channel transceiver module 25 connected to a conventional central microprocessor system 26 which is linked to a controlling server 27, the type of connection between the

refrigerators R and the hotel coordination center 24 is being at least one of star-like, linear, or hierarchical ~~or mixed~~.

5. (currently amended): The system S1 of refrigerators according to claim 4 ~~characterized in that~~ wherein at least one ~~or several~~ of the microprocessor systems 1 of the refrigerators R functions as bi-directional collector-retransmitter[[s]] of data obtained from particular groups of other refrigerators R for each microprocessor system 1 and of data obtained from the hotel coordination center 24.

6. (currently amended): A system S2 of refrigerators ~~characterized in that it comprises~~ comprising M systems S1 of refrigerators according to ~~claims 2 and 3~~ claim 3 connected to one another by means of M multi-channel communication lines and to a main coordination center 28, which ~~consists of~~ comprises a multi-channel transceiver module 29 connected to a conventional central microprocessor system 30 linked to a controlling server 31, the main coordination center 28 is being connected bi-directionally to data blocks situated at product suppliers 32, in one's own storehouses 33, in the transportation facilities 34 and at a repair base 35, and to global and local data networks 36, the type of the connection between all the elements of the system S2 and the main coordination center 28 is being at least one of star-like, ~~or~~ linear, or hierarchical ~~or mixed~~.

7. (currently amended): The system S2 of refrigerators according to claim 6 ~~characterized in that~~ wherein at least one ~~or several~~ of the coordination centers 24 of the hotels H function as bidirectional collector-retransmitters of data obtained from particular groups of other hotels H for each coordination center 24 and of data obtained from the main coordination center 28.

8. (new): The refrigerator R according to claim 1, in combination with at least one of a microprocessor module 1, a power supply 2, a temperature measuring module 4, a module 7 for the power supply control of the refrigerator lamp, a module 8 for the power supply control of the compressor or heater, a sound indicator 11, a multi-channel transceiver module 16, a module 17 for monitoring and control of the power supply 2, a module 18 and a buffer 20; each of which is arranged in a closed outer unit of the refrigerator.

9. (new): The refrigerator R of claim 1, wherein the light indicators 13, the multi-linear display 14 and the keyboard 15 are positioned at a suitable and accessible place within the refrigerator so that they are easily visible upon opening the refrigerator door, whereupon transponders 23, recognizable by the sensors 22, are positioned onto the products which are supplied to the refrigerator at locations where the sensors 23 are arranged.


**REMARKS**

This Preliminary Amendment places the application, and claims, in better condition for examination, and to present claims that are commensurate in scope to the Applicants' disclosure. No new matter has been added by way of the amendments. The specification has been amended to include a reference to related applications in order to recite the nature of the present application as the United States National Phase, under 35 U.S.C. § 371, of international patent application PCT/BG03/00028, having an international filing date of June 18, 2003.

It is believed that no additional fees are necessary in connection with the present Amendment. However, in the event any fees are due, kindly charge the cost thereof to our Deposit Account No. 13-2855.

Date: December 16, 2005

Respectfully submitted,

  
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